

**CORN AND SOYBEANS: Production Cash Costs
and Returns, Heartland Region, 2000-2001 1/**

Item	Corn		Soybeans	
	2000	2001	2000	2001
	<u>Dollars Per Planted Acre</u>		<u>Dollars Per Planted Acre</u>	
Gross value of production (excluding direct Government payments)				
Total, gross value of production	259.36	273.17	199.80	191.36
Operating costs				
Seed	30.64	33.00	18.30	21.72
Fertilizer, lime, and gypsum	41.60	49.85	7.23	7.42
Soil conditioners	0.10	0.09	0.14	0.09
Manure	0.36	1.73	0.94	1.18
Chemicals	30.51	26.67	22.58	22.82
Custom operations 2/	10.96	9.77	5.99	6.14
Fuel, lube, and electricity	26.41	16.18	7.78	7.84
Repairs	15.98	12.21	9.50	9.83
Other variable cash expenses 3/	0.00	0.00	0.00	0.00
Interest on operating capital	4.51	2.50	2.08	1.30
Total, operating costs	161.07	152.00	74.54	78.34
Allocated overhead				
Hired labor	2.35	2.10	1.35	1.42
Opportunity cost of unpaid labor	31.80	22.20	18.93	19.41
Capital recovery of machinery and equipment	67.32	51.27	51.02	52.80
Opportunity cost of land (rental rate)	100.73	96.90	90.65	92.38
Taxes and insurance	6.47	5.15	7.04	7.14
General farm overhead	11.11	10.49	14.94	15.46
Total, allocated overhead	219.78	188.11	183.93	188.61
Total costs listed	380.85	340.11	258.47	266.95
Value of production less total costs listed	-121.50	-66.94	-58.67	-75.59
Value of production less operating costs	98.29	121.17	125.26	113.02
Supporting information				
Yield (bu./planted acre)	148	151	45	46
Price (dollars per bushel at harvest)	1.75	1.80	4.44	4.16
Enterprise size (planted acres) 4/	223	270	225	225
Production practices 4/				
Irrigated (percent)	6	5	2	2
Dryland (percent)	94	95	98	98

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS websites listed below.

2/ Cost of custom operations, technical services, and commercial drying.

3/ Cost of purchased irrigation water.

4/ Developed from survey base year 1996, for corn. Developed from base year, 1997, for soybeans.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

WHEAT: Production Cash Costs and Returns, Northern Plains Region, 1994-2001 1/ 2/

Item	1994	1995	1996	1997	1998	1999	2000	2001
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Wheat	92.18	120.59	143.56	93.61	100.10	85.49	83.98	77.94
Wheat straw	0.60	0.51	0.60	0.74	1.74	1.42	1.67	1.85
Total, gross value of production	92.78	121.10	144.16	94.35	101.84	86.91	85.65	79.79
Cash expenses								
Seed	7.83	7.44	8.93	7.64	7.64	6.36	6.19	6.34
Fertilizer, lime, and gypsum	12.25	15.34	15.63	14.85	14.78	13.46	13.91	19.66
Chemicals	7.61	7.98	8.27	8.33	10.61	10.28	10.15	10.14
Custom operations	2.54	2.59	2.72	2.64	4.04	3.82	4.00	3.77
Fuel, lube, and electricity	5.82	5.99	7.12	6.74	4.25	4.16	6.06	6.03
Repairs	12.07	12.51	14.09	12.77	8.10	8.85	9.85	9.66
Hired labor	2.16	2.30	2.39	2.52	1.45	1.48	1.60	1.67
Other variable cash expenses 3/	0.03	0.03	0.03	0.03	0.16	0.16	0.16	0.17
Total, variable cash expenses	50.31	54.18	59.18	55.52	51.03	48.57	51.92	57.44
General farm overhead	4.18	5.45	4.54	5.35	6.32	6.42	6.49	6.76
Taxes and insurance	7.83	8.83	8.67	9.61	3.76	3.81	3.85	3.95
Interest	7.61	10.68	9.39	9.47	1.19	1.11	1.45	0.94
Total, fixed cash expenses	19.62	24.96	22.60	24.43	11.27	11.34	11.79	11.65
Total, cash expenses	69.93	79.14	81.78	79.95	62.04	59.91	63.71	69.09
Gross value of production less cash expenses	22.85	41.96	62.38	14.40	39.80	27.00	21.94	10.70
Harvest-period price (dollars/bu.)	3.31	4.31	4.86	3.81	2.91	2.68	2.50	2.66
Yield (bu./planted acre)	27.85	27.98	29.54	24.57	34.40	31.90	33.60	29.30

1/ Data for 1994-1997 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 1998 and later refer to the Northern Great Plains Region which includes North Dakota, South Dakota, and parts of Montana, Wyoming, Nebraska and Minnesota.

3/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

BARLEY: Production Cash Costs and Returns, Northern Plains Region, 1994-2001 1/

Item	1994	1995	1996	1997	1998	1999	2000	2001
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Barley	89.47	109.22	139.00	91.83	79.90	73.27	68.82	75.98
Barley straw	1.94	1.87	1.89	2.67	2.07	1.79	2.02	2.07
Total, gross value of production	91.41	111.09	140.89	94.50	81.97	75.06	70.84	78.05
Cash expenses								
Seed	5.22	5.72	7.63	6.77	6.30	5.73	5.84	5.84
Fertilizer, lime, and gypsum	13.47	16.77	17.11	16.68	14.49	13.52	13.80	18.15
Chemicals	7.29	7.69	7.86	7.97	8.11	8.14	7.77	7.93
Custom operations	3.09	3.46	3.41	3.39	3.49	3.68	3.64	3.77
Fuel, lube, and electricity	7.22	7.42	8.85	8.59	7.55	7.72	10.28	8.92
Repairs	12.69	13.04	15.21	13.87	14.08	14.25	14.91	15.02
Hired labor	3.55	3.80	3.98	4.40	4.50	4.65	4.88	5.23
Other variable cash expenses 2/	0.81	0.86	0.98	1.04	1.06	1.32	1.14	1.32
Total, variable cash expenses	53.34	58.76	65.03	62.71	59.58	59.01	62.26	66.18
General farm overhead	6.11	7.27	7.28	7.58	6.07	5.77	5.82	6.01
Taxes and insurance	10.90	11.87	12.86	12.13	11.14	10.39	10.70	10.70
Interest	9.96	13.01	13.70	12.20	11.33	11.40	11.40	12.15
Total, fixed cash expenses	26.97	32.15	33.84	31.91	28.54	27.56	27.92	28.86
Total, cash expenses	80.31	90.91	98.87	94.62	88.12	86.57	90.18	95.04
Gross value of production less cash expenses	11.10	20.18	42.02	-0.12	-6.15	-11.51	-19.34	-16.99
Harvest-period price (dollars/bu.)	1.93	2.47	2.82	2.11	1.69	1.73	1.59	1.83
Yield (bu./planted acre)	46.36	44.22	49.29	43.52	47.28	42.35	43.28	41.52

1/ The Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

OATS: Production Cash Costs and Returns, North Central Region, 1994-2001 1/

Item	1994	1995	1996	1997	1998	1999	2000	2001
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Oats	68.92	71.40	119.06	104.46	64.03	68.26	69.90	85.42
Oats straw	44.21	37.98	44.21	49.88	44.21	45.34	46.48	48.18
Total, gross value of production	113.13	109.38	163.27	154.34	108.24	113.60	116.38	133.60
Cash expenses								
Seed	9.29	8.91	9.67	10.10	9.72	9.02	8.30	8.23
Fertilizer, lime, and gypsum	16.71	20.61	20.12	20.09	19.10	17.90	18.24	21.16
Chemicals	1.15	1.19	1.26	1.27	1.27	1.26	1.25	1.27
Custom operations 2/	6.08	5.69	5.75	5.71	5.73	5.75	5.76	5.82
Fuel, lube, and electricity	6.64	4.08	4.19	4.33	3.54	3.72	5.52	5.19
Repairs	9.61	8.03	6.50	7.63	7.10	6.70	6.57	6.69
Hired labor	1.64	1.58	1.73	1.81	1.91	2.00	2.18	2.17
Other variable cash expenses 3/	1.63	1.40	1.63	1.84	1.63	1.67	1.71	1.78
Total, variable cash expenses	52.75	51.49	50.85	52.78	50.00	48.02	49.53	52.31
General farm overhead	4.58	4.83	4.52	5.31	5.01	5.08	5.21	5.38
Taxes and insurance	17.33	19.00	20.15	20.15	19.58	20.15	21.16	21.54
Interest	5.44	6.22	6.14	6.17	6.50	6.13	6.48	6.60
Total, fixed cash expenses	27.35	30.05	30.81	31.63	31.09	31.36	32.85	33.52
Total, cash expenses	80.10	81.54	81.66	84.41	81.09	79.38	82.38	85.83
Gross value of production less cash expenses	33.03	27.84	81.61	69.93	27.15	34.22	34.00	47.77
Harvest-period price (dollars/bu.)	1.23	1.28	2.02	1.62	1.09	1.10	1.02	1.32
Yield (bu./planted acre)	56.03	55.78	58.94	64.48	58.74	62.05	68.53	64.71

1/ The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

2/ Cost of custom operations and technical services.

3/ Cost of baling.

Note: Survey base changed in 1994.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)**SUGARBEETS: Production Cash Costs and Returns, Red River Valley, 1994-2001 1/**

Item	1994	1995	1996	1997	1998	1999	2000	2001
<u>Dollars per Planted Acre</u>								
Gross value of production								
Beets - gross value of production	852.36	685.85	851.03	697.50	733.42	739.11	723.06	624.60
Cash expenses								
Seed	39.89	41.15	42.91	44.81	46.39	45.55	44.89	45.01
Fertilizer	32.78	39.90	41.68	39.86	35.68	33.83	28.74	37.21
Chemicals	66.79	68.13	71.12	71.13	71.43	70.62	109.03	109.80
Custom operations	24.78	24.12	23.93	23.30	25.78	24.79	23.49	23.02
Fuel and lubrication	18.46	17.85	21.87	20.73	18.43	19.18	24.86	24.55
Repairs	29.87	28.93	29.37	31.53	33.53	34.38	32.52	34.59
Hired labor	66.12	69.33	77.02	83.06	86.06	84.88	51.76	55.21
Purchased irrigation water	0.04	0.04	0.04	0.05	0.05	0.04	0.06	0.06
Freight and dirt hauling charges	9.93	9.55	11.93	11.81	11.25	10.85	13.62	13.91
Miscellaneous 2/	13.85	14.47	16.54	16.94	15.71	15.77	13.30	13.75
Hauling allowance (-)	-9.50	-9.14	-11.39	-11.36	-10.75	-10.36	-10.34	-10.44
Total, variable cash expenses	293.01	304.33	325.02	331.86	333.56	329.53	331.93	346.67
General farm overhead	30.16	30.43	20.75	30.90	28.98	29.48	27.55	28.49
Taxes and insurance	35.88	39.36	33.23	39.24	40.39	40.76	14.57	12.59
Interest	41.90	45.83	32.88	41.99	48.63	49.59	8.38	4.96
Total, fixed cash expenses	107.94	115.62	86.86	112.13	118.00	119.83	50.50	46.04
Total, cash expenses	400.95	419.95	411.88	443.99	451.56	449.36	382.43	392.71
Gross value of production less cash expenses	451.41	265.90	439.15	253.51	281.86	289.75	340.63	231.89
Season-average price (dollars/ton)	41.66	38.38	46.76	38.43	35.21	37.16	35.10	35.09
Yield (net tons/planted acre)	20.46	17.87	18.20	18.15	20.83	19.89	20.60	17.80

1/ The Red River Valley includes Minnesota and eastern North Dakota.

2/ Includes costs deducted by the processor from the net payment and noncash benefits.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

**HOG PRODUCTION: Farrow-to-Finish, Farrow-to-Feeder,
Feeder Pig-to-Finish, Cash Costs and Returns, Heartland Region, 2001 1/**

Item	All Hog Producers	Farrow to Finish	Farrow to Feeder 2/	Feeder Pig to Finish
<u>Dollars per Cwt Gain 3/</u>				
Gross value of production				
Market hogs	43.75	42.64	2.21	52.73
Feeder pigs	11.27	0.81	121.07	0.22
Cull stock	1.29	2.19	3.33	0.02
Breeding stock	0.50	0.20	0.33	0.02
Inventory change	-0.36	-0.20	-5.50	0.68
Other income 4/	1.89	1.81	1.52	2.05
Total gross value of production	58.34	47.45	122.96	55.72
Operating costs				
Feed				
Grain	7.10	8.93	1.97	5.64
Protein sources	6.45	8.87	1.00	4.08
Complete mixes	7.74	4.66	25.23	9.06
Other feed items 5/	0.23	0.37	0.23	0.08
Total feed costs	21.52	22.83	28.43	18.86
Other				
Feeder pigs	14.30	0.08	0.76	31.97
Veterinary and medicine	1.22	1.63	2.91	0.55
Bedding and litter	0.04	0.04	0.05	0.02
Marketing	0.63	0.35	3.86	0.54
Custom services	0.32	0.28	0.31	0.40
Fuel, lube, and electricity	1.45	1.55	3.79	0.92
Repairs	0.92	1.26	1.16	0.43
Other operating costs 6/	0.03	0.03	0.04	0.03
Interest on operating capital	0.68	0.47	0.70	0.91
Total operating costs	41.11	28.52	42.01	54.63
Allocated overhead				
Hired labor	2.43	2.83	11.80	0.45
Opportunity cost of unpaid labor	5.84	7.51	7.86	3.38
Capital recovery of machinery and equipment	11.11	12.03	27.68	6.95
Opportunity cost of land (rental rate)	0.05	0.06	0.07	0.02
Taxes and insurance	0.50	0.54	0.95	0.38
General farm overhead	1.02	1.11	1.59	0.80
Total, allocated overhead	20.95	24.08	49.95	11.98
Total costs listed	62.06	52.60	91.96	66.61
Value of production less total costs listed	-3.72	-5.15	31.00	-10.89
Value of production less operating costs	17.23	18.93	80.95	1.09
Supporting information				
Production arrangement (percent of production) 7/				
Independent	72	99	22	49
Under contract	28	1	78	51
Size of operation (head sold/removed)				
Market hogs	1,706	1,520	72	2,486
Feeder pigs	924	49	8,886	14

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website.

2/ Farrow to Feeder data are for the United States (Heartland Region data are not available).

3/ Cwt gain = (cwt sold - cwt purchased) ÷ cwt inventory change.

4/ Value of manure production.

5/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

6/ Costs for odor control and fees, permits, licenses, and other regulatory costs.

7/ Developed from survey base year, 1998.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

COW-CALF: Production Cash Costs and Returns, Heartland Region, 2000-2001 1/

Item	2000	2001
	<u>Dollars per Bred Cow</u>	
Gross value of production		
Steer calves	191.23	188.26
Heifer calves	129.55	127.54
Yearling steers	37.75	38.84
Yearling heifers	11.43	11.74
Other cattle	66.87	72.71
Total, gross value of production	441.36	443.39
Operating costs		
Feeder cattle	25.64	26.39
Feed		
Concentrates and other feed	24.76	26.23
Supplemental feed	30.65	35.19
Harvested forages	190.00	206.00
Cropland pasture	13.10	13.42
Private pasture	68.54	73.63
Public land	0.37	0.37
Total feed costs	327.42	354.84
Other		
Veterinary and medicine	41.64	39.24
Bedding and litter	1.22	1.32
Marketing	4.53	4.30
Custom operations	43.42	40.77
Fuel, lube, and electricity	16.19	16.18
Repairs	31.43	29.63
Interest on operating inputs	15.31	8.89
Total, variable operating costs	506.80	521.56
Allocated overhead		
Hired labor	0.54	0.58
Opportunity cost of unpaid labor	200.12	205.55
Capital recovery cost of machinery and equipment	254.91	272.90
Opportunity cost of land	5.42	5.46
Taxes and insurance	43.78	44.13
General farm overhead	80.63	82.71
Total, allocated overhead	585.40	611.33
Total cost listed	1,092.20	1,132.89
Value of production less total costs listed	-650.84	-689.50
Value of production less operating costs	-65.44	-78.17

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website listed below.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)



MILK: Production Costs And Returns, per cwt sold, 2000-2001

Item	Heartland 1/		Northern Crescent 2/	
	2000	2001	2000	2001
Gross value of production	<u>Dollars per Cwt.</u>			
Milk	12.36	15.31	12.90	15.78
Cattle	1.42	1.54	1.17	1.24
Other income 3/	0.79	1.05	0.63	0.81
Total, gross value of production	14.57	17.90	14.70	17.83
Operating costs:				
Feed				
Feed grains	1.83	1.99	1.15	1.22
Hay and straw	2.29	2.37	1.07	1.13
Complete feed mixes	0.87	0.94	1.09	1.14
Liquid whey and milk replacer	0.11	0.07	0.10	0.07
Silage	0.86	0.82	1.26	1.25
Grazed pasture and cropland	0.13	0.13	0.07	0.07
Other Feed item 4/	1.55	1.58	1.05	1.07
Total, feed costs	7.64	7.90	5.79	5.95
Other				
Veterinary and medicine	0.75	0.77	0.77	0.79
Bedding and litter	0.23	0.23	0.23	0.24
Marketing	0.22	0.22	0.31	0.31
Custom service	0.53	0.54	0.47	0.48
Fuel, lube, and electricity	0.56	0.52	0.56	0.54
Repairs	0.59	0.59	0.60	0.61
Other Operating costs 5/	0.00	0.00	0.00	0.00
Interest on operating capital	0.30	0.18	0.25	0.15
Total, Operating costs	10.82	10.95	8.98	9.07
Allocated overhead				
Hired labor	0.73	0.79	1.17	1.21
Opportunity cost of unpaid labor	5.64	5.68	5.15	5.15
Capital recovery of machinery and equipment 6/	4.66	4.67	4.11	4.22
Opportunity cost of land (rental rate)	0.09	0.09	0.09	0.08
Taxes and insurance	0.19	0.20	0.22	0.22
General farm overhead	0.56	0.58	0.61	0.63
Total, allocated overhead	11.87	12.01	11.35	11.51
Total cost listed	22.69	22.96	20.33	20.58
Value of production less total costs listed	-8.12	-5.06	-5.63	-2.75
Value of production less operating costs	3.75	6.95	5.72	8.76
Supporting Information				
Milk Cows (head per farm)	57	59	66	68
Output per cow (pounds)	18,567	18,541	19,721	19,806
Milking frequency greater than twice per day (percent of farms)	1.62	1.77	2.84	2.98
Homegrown feed cost (percent of total feed cost)	60	60	50	49
Milk cows injected with BST (head per farm)	10	10	13	14

1/ The Heartland Region includes MN Agricultural Statistics Districts (ASD) 4, 7, 8, and 9, SD ASD 6 and 9, NE ASD 3 and 6, IA, MO ASD 1, 2, 3, 4, 5, 6 and 9, IL, IN, KY ASD 1 and 2, and Ohio ASD 1, 4, 5, 7 and 8. The first data available for the Heartland Region is 2000.

2/ The Northern Crescent Region includes New England, New York ASD 1, 2, 3, 5, 6, 8 and 9, Ohio ASD 2 and 3, MI, WI and MN ASD 2, 3, 5 and 6. The first data available for the Northern Crescent Region is 2000.

3/ Income from renting or leasing dairy stock to other operations; renting space to other dairy operations; co-op patronage dividends associated with the dairy; assessment rebates, refunds, and other dairy related resources; and manure production.

4/ Cotton seed meal, protein supplements, protein by products, vitamin or mineral supplements, nonprotein byproducts, alfalfa cubes or pellets, green chop, corn stalks, and antibiotics and other medicated additives.

5/ Manure handling.

6/ Machine and equipment, and housing, manure handling, and feed storage structures, and dairy breeding herd.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)